### ADDENDUM NO. 1

AUSTIGUY 9528PE

TO:

ALL BIDDERS OF RECORD

PROJECT:

Selway Creek Fish Barrier Project

FWP PROJECT #: 20-03

DATE:

10/04/19

FROM:

George Austiguy, Pioneer Technical Services

Acknowledge receipt of this addendum by inserting its number and date in the Proposal Form and on the Bid Envelope. Failure to do so may subject bidder to disqualification.

This Addendum forms a part of the Contract Documents. Clarification and/or modifications are as follows:

#### **Contractor Questions and Clarifications**

1. **Question:** What is the anticipated date of the NTP (Notice to proceed)?

**Response:** Construction is anticipated to begin June 15, 2020.

#### Changes to Specifications

#### SECTION 02210 - FILL MATERIALS AND PLACEMENT REQUIREMENTS

PART 3

**EXECUTION** 

#### 3.04 COMPACTION

#### Replace Paragraph B with the following paragraph:

B: Type A and C material and retaining wall backfill shall be compacted to a minimum of 95% of the maximum dry density as determined by ASTM D698.

The moisture content, as determined by ASTM D2216, shall be between + 2 % of the optimum moisture content as determined by ASTM D698. The moisture content shall be uniform throughout the lift. Placed materials not meeting this requirement, as determined by testing by Contractor, shall be scarified to a depth of 1 foot, wetted or dried as necessary to meet this requirement, and mixed to uniform water content.

**Summary of Change:** Provide additional compaction performance standard details.

#### **SECTION 02270 - STREAM CHANNELS AND DIVERSIONS**

PART 3 EXECUTION

#### 3.02 TEMPORARY STREAM DIVERSIONS OF SELWAY CREEK

#### Add the following paragraph

E. Structural Embankment, toe drain and toe riprap must be completed and approved by Engineer prior to impounding water behind the fish barrier earthen embankment.

#### SECTION 03300 - CAST-IN-PLACE CONCRETE

Part 3 – EXECUTION

- 1. Part 3.08 CONCRETE CURING AND PROTECTION, Replace the existing Paragraph C with the following replacement paragraph:
- C. Cure concrete according to ACI 308.1, by one or a combination of the following methods:
  - 1. Moisture Curing: Use a continuous water-fog spray to keep the concrete surface continuously wet.
  - 2. Moisture-Retaining-Cover: Cover concrete surfaces with specified moisture-retaining cover placed in the widest practicable width, with sides and ends lapped at least 4 inches and sealed by waterproof tape or adhesive. Immediately repair any holes or tears during curing period using cover material and waterproof tape. Thoroughly saturate cover with water and keep continuously wet for the duration of the specified curing period.
  - Curing Compound: Apply uniformly in continuous operation by power spray or roller according to manufacturer's written instructions. Recoat areas subjected to heavy rainfall within three hours after initial application. Maintain continuity of coating and repair damage during curing period.

Summary of Change: Added curing compound option to concrete curing methods.

Add the following as Appendix B

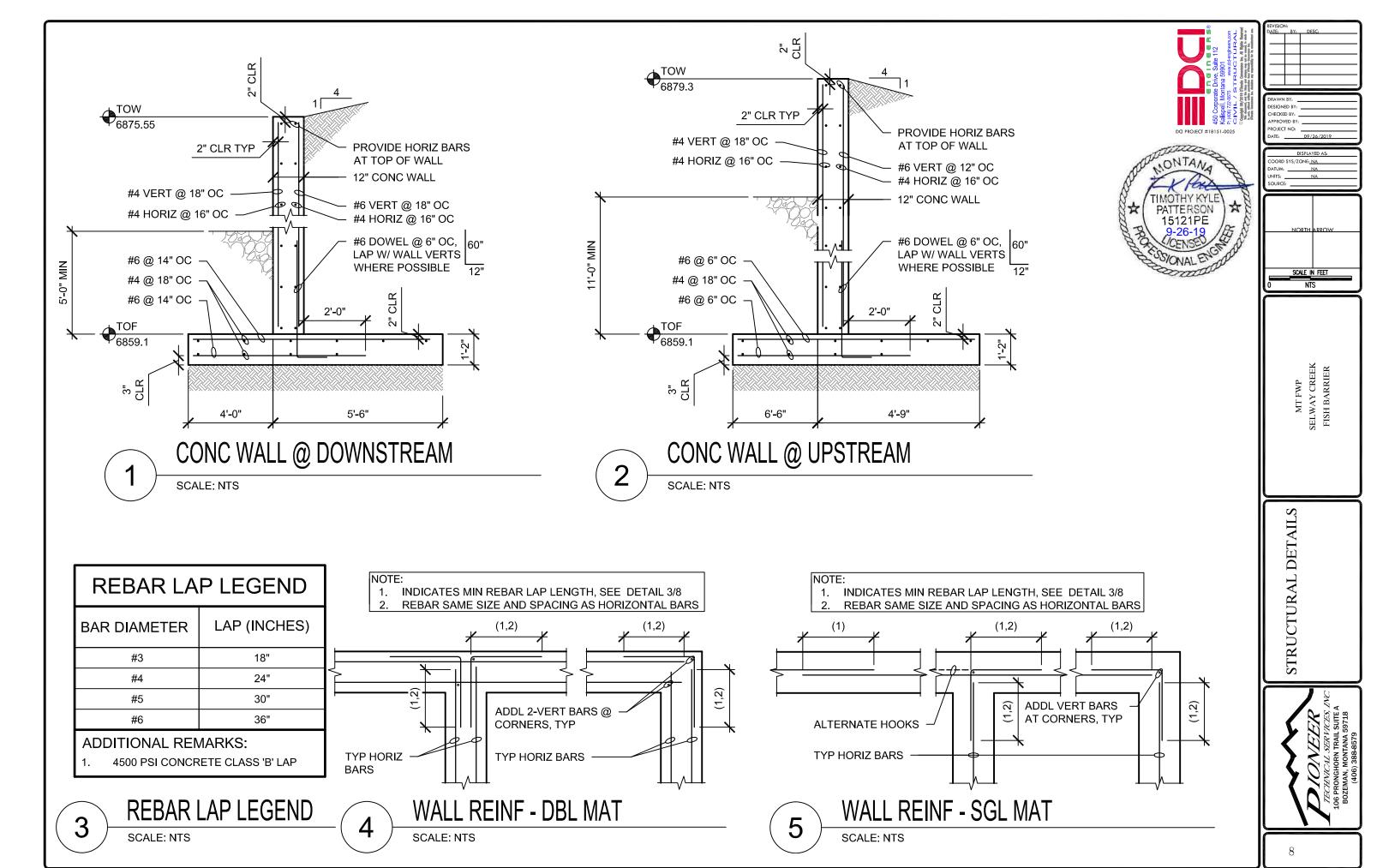
**USFS Borrow Site Particle Size Gradation Report (Attached)** 

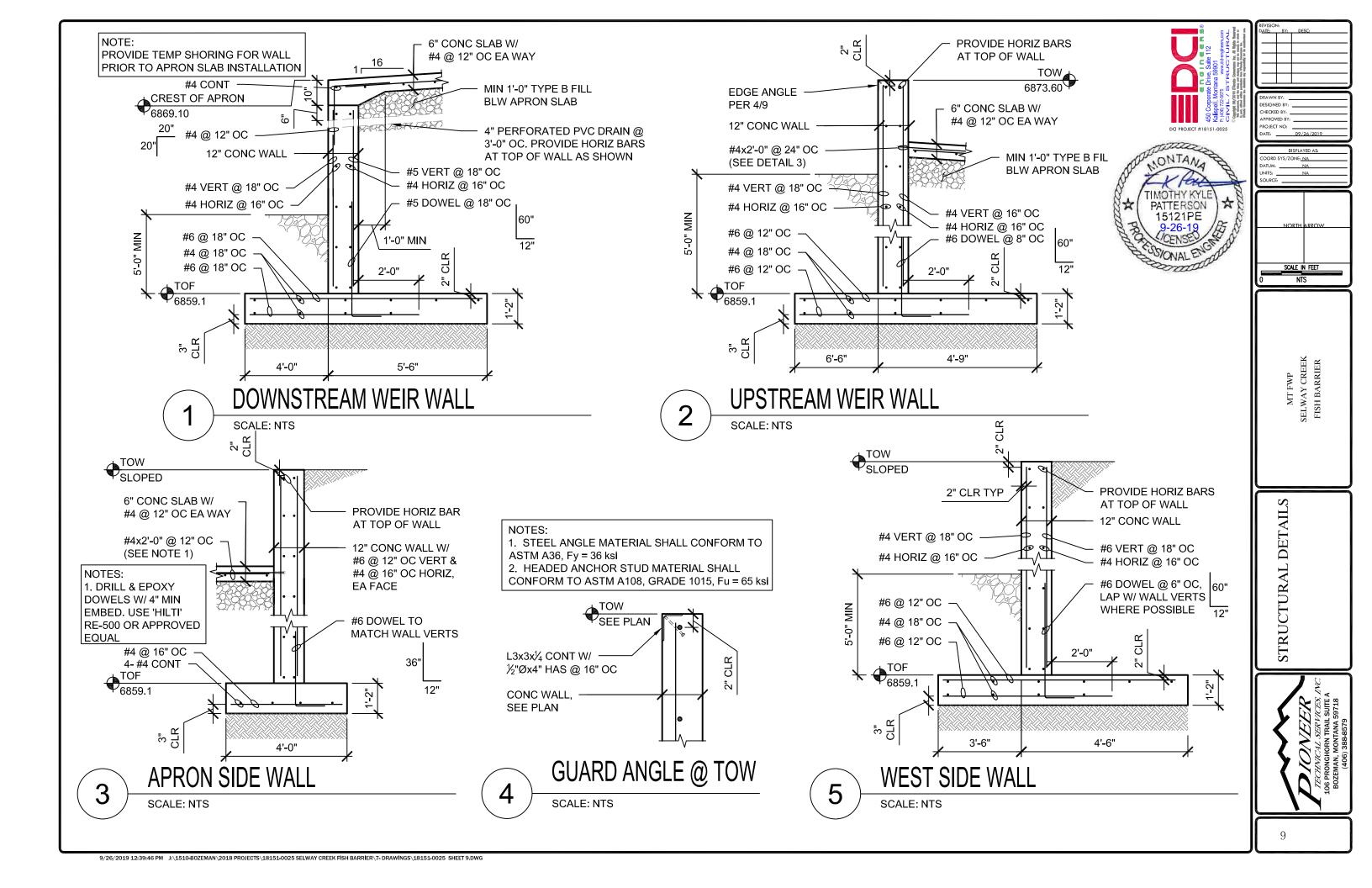
### **Changes to Plans**

1. Sheet 8: Corrected errors.

2. Sheet 9: Corrected errors.

**END OF ADDENDUM NO.1** 

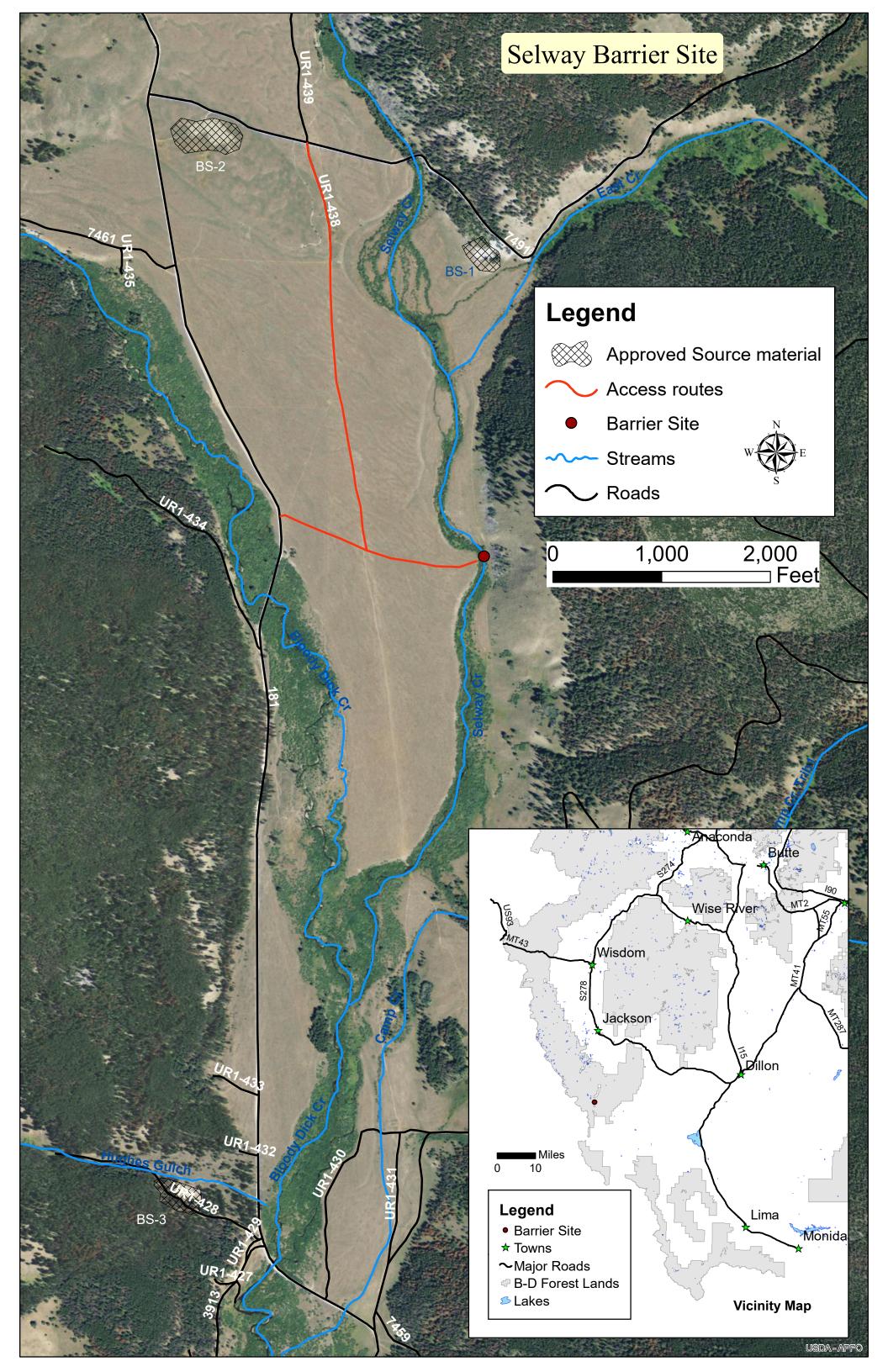


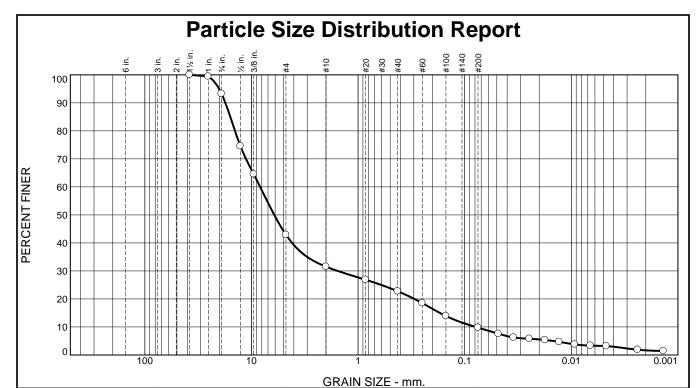


# APPENDIX B

# **USFS AVAILABLE BORROW SITES**

Particle Size Distribution Reports for Borrow Site B-1





% +3"	9/ .3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay	
	0.0	6.8	50.3	11.4	8.8	12.9	6.6	3.2

	TEST RESULTS					
Opening	Percent	Spec.*	Pass?			
Size	Finer	(Percent)	(X=Fail)			
1 1/2"	100.0					
1"	99.5					
3/4"	93.2					
1/2"	74.6					
3/8"	64.5					
#4	42.9					
#10	31.5					
#20	26.8					
#40	22.7					
#60	18.5					
#100	13.9					
#200	9.8					
0.0483 mm.	7.6					
0.0348 mm.	6.2					
0.0248 mm.	5.8					
0.0176 mm.	5.3					
0.0130 mm.	4.7					
0.0093 mm.	3.8					
0.0066 mm.	3.3					
0.0047 mm.	3.2					
0.0024 mm.	1.9					
0.0014 mm.	1.4					
1	I	1				

## **Material Description**

poorly graded gravel with silt and sand

Atterberg Limits (ASTM D 4318)

**PL=** 17

Coefficients

**D**<sub>90</sub>= 17.5758 **D**<sub>50</sub>= 6.1137 **D**<sub>10</sub>= 0.0788 D<sub>85</sub>= 15.8011 D<sub>30</sub>= 1.5546 C<sub>u</sub>= 105.27 **D<sub>60</sub>=** 8.2915 D<sub>15</sub>= 0.1707 C<sub>c</sub>= 3.70

Remarks

Date Received: **Date Tested:** 6-18-18

Tested By: LPS/JM

Checked By: NG

Title: Laboratory Manager

(no specification provided)

Source of Sample: Borrow Sample Number: G18384

**Date Sampled:** 

Pioneer Technical Services, Inc.

106 Pronghorn Trail, Suite A - Bozeman, MT 59718

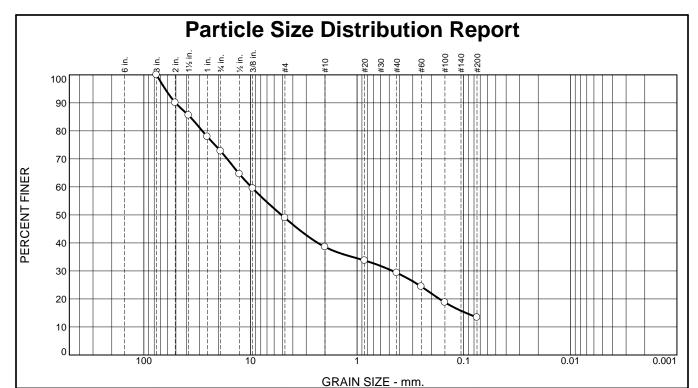
Ph. 406-388-8578 - Fax 406-388-8579

Client: FWP

**Project:** Selway Creek Fish Barrier

Project No:

**Figure** 



9/ .2"	% Gravel		% Sand			% Fines	
% +3"	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	27.2	23.9	10.3	9.3	15.9	13.4	

TEST RESULTS						
Opening	Percent	Spec.*	Pass?			
Size	Finer	(Percent)	(X=Fail)			
3"	100.0					
2"	90.1					
1 1/2"	85.6					
1"	77.9					
3/4"	72.8					
1/2"	64.6					
3/8"	59.5					
#4	48.9					
#10	38.6					
#20	33.7					
#40	29.3					
#60	24.4					
#100	18.8					
#200	13.4					

Material Description silty gravel with sand								
PL= 18 Atterberg Limits (ASTM D 4318) LL= 20 Pl= 2								
	Classification							
USCS (D 2487)=	GM AASHTO	(M 145)= A-1-a						
D <sub>90</sub> = 50.5644 D <sub>50</sub> = 5.1251 D <sub>10</sub> =	Coefficients D85= 36.8252 D30= 0.4637 Cu=  Remarks	D <sub>60</sub> = 9.8336 D <sub>15</sub> = 0.0950 C <sub>c</sub> =						
Date Received:	Date 1	Tested: <u>6-18-18</u>						
Tested By: LPS/JM								
Checked By: NG								
Title: Laboratory Manager								

Source of Sample: Borrow Sample Number: G18385

**Date Sampled:** 

Pioneer Technical Services, Inc.

106 Pronghorn Trail, Suite A - Bozeman, MT 59718

Ph. 406-388-8578 - Fax 406-388-8579

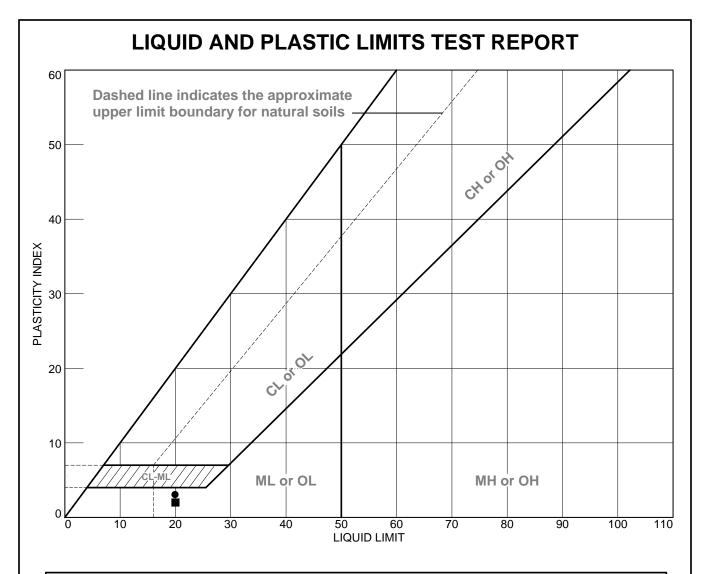
Client: FWP

**Project:** Selway Creek Fish Barrier

Project No:

Figure

<sup>(</sup>no specification provided)



	SOIL DATA							
SYMBOL	SOURCE	SAMPLE NO.	DEPTH	NATURAL WATER CONTENT (%)	PLASTIC LIMIT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	uscs
•	Borrow	G18384			17	20	3	GP-GM
•	Borrow	G18385			18	20	2	GM

Pioneer Technical Services, Inc.

106 Pronghorn Trail, Suite A - Bozeman, MT 59718
Ph. 406-388-8578 - Fax 406-388-8579

Client: FWP

**Project:** Selway Creek Fish Barrier

Project No.:

**Figure** 

Tested By: LPS Checked By: NG